

Penny Pearson, Coordinator
Distance Learning Projects, OTAN

Wheels and Widgets: Shared Resources to Build Student Success in a Blended Online Environment

At the end of the session participants will be able:

Identify different course repositories

To list resources to find suitable courses

To discuss course licensing, quality and ownership issues

The development of quality distance education programs can require a great deal of time, effort, and money. However, many agencies do not have an abundance of these resources. Through the generosity of dedicated teachers as well as grant-funded efforts of organizations around the world, many online courses are developed, tested and shared. Someone may have created just the course you want, and be willing to give it to you! A little time and effort could result in the discovery of many *free* courses available to adult education agencies to incorporate into their DL programs. This session is an introduction to these free, or very low cost, online courses. A resource list will provide participants examples of different course repository sites and include a list of course subject area, activities and resources included, licensing considerations, quality review as well as a general discussion as to how agencies could use these courses within their programs.

You do not have to reinvent the wheel when it comes to curriculum resources. Come learn about a variety of shared resources available *at no cost* to help build your online/blended learning programs. A review of ABE/ASE transition materials, ESL courses and other Open Education Resources (OER) will help teachers,

administrators and coordinators determine the best fit for their program. When programs provide students with the option of an online/blended program; you meet student needs, and build their technology and confidence skills to be productive and proactive citizens. Online and blended learning also empowers them to control their own learning to meet their personal goals.

Objectives

- Identify and define “course repositories”
- Awareness of OTAN’s contributions
- Identify other resources to find shared courses
- Gain a basic understanding of other Open Education Resources
- Discuss licenses, quality and ownership issues

Identify different course repositories

To list resources to find suitable courses

To discuss course licensing, quality and ownership issues

Free? Really?

- Dedicated teachers create incredible materials and are willing to share
- Repositories allow a centralized point to do this
- From complete courses to a simple single lesson
- Most resources are available at no cost
 - Or licensed for sharing and modification

There is a huge upsurge in online learning.

Resources abound. Many teachers create materials and post them for students and fellow teachers.

Difficult to find.

Why not work together to bring resources for adult education together in one spot? Efforts are under way with a new OER-STEM project to locate, identify, implement and rate materials for adult students through OER Commons.org OTAN is partnering with American Institute of Research (AIR) on this project to help teach STEM within adult education. (Session on Monday)

OTAN's efforts to provide sharable courses

- Repository materials generally geared K-12 & college
- Not easy to find Adult Education level content
- Project goals include deliverables of 3 sharable online courses
- Three available now:
 - USA Learns 2nd Course Moodle “wrap-around”
 - Advanced ESL
 - College Transition and Career Development

OTAN's Distance Learning project has one component to develop and share online courses specifically designed for adult education and our students. Guided by our own ‘field based’ Distance Learning Advisory Committee and subject area experts, we find, develop and contract with necessary experts to create these courses.

Although there are many K-12 and secondary education resources for online classes out there (just do a google search for “shared online courses”) there is very little specifically targeted for low-literacy adults.

Our goals, 3 courses, supplemental materials for USA Learns, Advanced ESL & College Transition and Career Development

We chose Moodle as our course management system for several reasons, mainly because it was a free open-source program, and we have staff to administer and maintain our servers.

Next I'd like to give you a brief overview of each of our courses.

Moodle + USA Learns 2nd Course

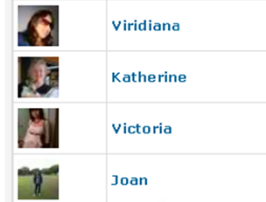
- [USA Learns](#) Second Course “Moodle Wrap-around”
- Structure follows the Topics & Units in the course
- Reinforces vocabulary
- **Supplemental** activities



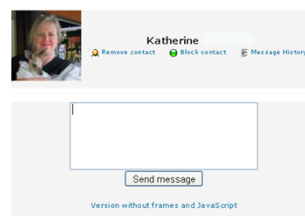
USA Learns.org is an award winning English Language learning web site. (ask who knows about it or uses it) SCOE recently won the Golden Bell Award from the CA School Boards Association for excellence. USA Learns is made up of 3 separate courses, beginning, intermediate and advanced. The “wrap around” course is designed to follow the structure of the 2nd intermediate course. It provides supplemental material for building vocabulary (glossaries), crossword puzzles, additional writing assignments and supplemental quizzes.

This Moodle course allows:

- Students to see the other students in your class -- even better, to see their photos
- Students to send messages to each other as well as to the teacher on Moodle
- Teachers to send messages to students individually and to all, which is a time-saver, as well as to post announcements



Sample student list



Internal messaging














In addition to the materials provided, students engaged in an online environment gain many necessary skills in using technology (it can really be a challenge

too!) Using an online course allows for extra features and possibilities to engage students with each other as well as the teacher. Photos and communication, etc. are not so important in a lab or a hybrid class, but very important in

building community in an online class

This Moodle sharable course provides:

- Assessment that is structured and secure
- Content that builds a sense of community, of classroom, e.g. discussion forums and a chat room
- Glossaries including nearly all words in USAL
- Email notifications to teachers when writing assignments are completed
- Course is completely editable

Topic outline		
Welcome to Name's ESL Online Class with USA Learn's 2nd English Course		
Look for announcements from your instructor here.		
		
1	Workers and the Workplace Topic [Units 1 - 4]	
 Workers and the Workplace Glossary		
 Workers and the Workplace Pre-Topic Questionnaire		
Unit 1: Job and Career Advancement		
 Job and Career Advancement Crossword		
 Job and Career Advancement Online Writing Assignment		
 Job and Career Advancement Quiz		
2	Unit 2: On the Job Health and Safety	
 On the Job Health and Safety Crossword		
 On the Job Health and Safety Online Writing Assignment		
 On the Job Health and Safety Quiz		
3	Unit 3: Support Systems for Injured Workers	
 Support Systems for Injured Workers Crossword		

Bullet 1 e.g., USAL tests can be repeated indefinitely to get a higher score... though you can respond to online writing in USAL, it takes digging to know where there are writing assignments and when they've been completed. Moodle allows for the same flexibility but includes features to notify teachers when assignments are submitted, and a centralized point to do all the grading. Students are immediately notified of when their work is graded. Features are available to help build community including discussion forums, asynchronous chat rooms and some teachers build in using a synchronous tool like Skype or Google Hangouts to support students.

5 Topics, each with 4 separate Units. Workers and the Workplace; Housing and Family Life; Taxes, Law and Community Issues; Parenting and Workplace Roles; Education and Information









Moodle has many built in resources and tools including a calendar system, messaging, the ability to do group-work online, create robust lessons with learning content and assessment. And the ability to provide customized feedback to students on all their work.

The course is completely editable so it can be further customized for your learners and to meet your program goals.

Advanced ESL Sharable Course

- 18 Structured Units
 - Topic Based
 - Teachers have flexibility to change/hide units
 - Pre- and Post- materials help to scaffold the materials
- Course is fully-editable by the teacher
- Media rich and "self-contained"

Activities

-  Assignments
-  Choices
-  Forums
-  Glossaries
-  HotPots
-  Lessons
-  Quizzes
-  Resources

Pre-Unit
units: Topic based

18 content

Pre-Course Survey

- Computer terms
- Computer Quiz
- Pre-Test

Post Survey and
Post Test












The course has 18 units and was designed to be a semester long course, pilot testing showed that this was not realistic. Students needed more time to cover the materials provided. Several adult schools are using this course for a full year.

This course uses 8 different activities or resources. The Lessons are the most robust containing a lot of content where the learning can select their own learning path (branched lessons) with materials rich in multi-media, such as videos and audio, as well as assessment to reinforce student learning. Although designed to be 'stand alone'; most programs use this in some form of blended learning environment.

As with the USA Learns course, teachers can modify the course as they like to meet the needs of the learner or your program goals.

Advanced ESL Sharable Course

1 Goals and Personal Information

-  Word Forms Group 1 and Unit One Vocabulary
-  Tell us About Yourself
-  Why are you studying English
-  Irregular Verb Exercise
-  Interview with a Musician
-  Reading: Al Gore
-  Writing Sentences with Word Forms
-  Dictation on Word Forms Group 1
-  Word Forms Group 1 Quiz
-  Irregular Past Tense Verb Quiz
-  Unit 1 Test

- Glossary (Vocabulary covered in unit)
- Forum (Writing activity related to topic of unit)
- Grammar Lesson/Quiz
- Reading Lesson
- Listening or Video Lesson
- Writing Activity based on Listening/Video or Reading
- Dictation
- Quiz (Vocabulary or comprehension)
- Hotpotatoes Quiz (one for grammar, one for vocabulary from the unit)
- Unit Test

This is a single sample unit with all the different activities and assessments included. Including more robust Unit TESTS as well.

Each unit is constructed in the same manner with these basic pieces:

Glossary – There is a separate glossary for each unit

Forums – for discussion and sharing

A short survey

An assignment

Several Lessons (which are deceiving in how extensive they are. The teacher/developer included a lot of multimedia not only in the content, but also within the quiz questions as well. Students listen to sentences and phrases and write them; Moodle does the grading!)

Hot Potatoes – these activities reinforce the content created in other activities and resources

Unit tests are comprehensive

In these ESL courses not only are students learning English, they are gaining necessary skills for using technology: dragging, dropping, clicking and double-clicking, using messaging in some form, writing and keyboarding, using synchronous tools like chat. You're not teaching the "technology" per se, you're teaching English using technology.

College Transition and Career Development

- Developing Course specifics
 - Objectives
 - Standardized blocks
- Two Paths
 - Transition to School
 - Transition to Work
- Subject matter experts/teachers
- Piloted/beta tested by 6 CA agencies
- Challenges with appropriate content

Personal Success In Writing:

Sentence Basics, Paragraph Basics, How to Write an Essay, How to Write a Report, Writing Mechanics, Punctuation and Capitalization

Path A: Success in School

Unit 1: Improving your Skills

Unit 2: College

Path B: Job Preparation

Unit 1: Job Exploration

Unit 2: Creating a Job Portfolio

Unit 3: Soft Skills in the Workplace

Piloted by: Sweetwater Adult Education (Montgomery Adult School), Moreno Valley Adult School, Clovis Adult School Visalia Adult School, Baldwin Park Adult School and Elk Grove Adult and Community Education.

College Transition

- Each unit constructed in the same way
- Students needed more explicit directions
- Lessons are branched
- Assignments are written online
- Reinforcing activity
- Unit quiz

Path A, Unit 1: Goal Setting

Goal Setting


You have a dream. To get there, you need to set goals. Learn about how to set goals so you can really accomplish your dream.

 Student Directions Path A, Unit 1: "Goal Setting"

 Tutorial on How to Submit your Assignments

 Study Guide: Goal Setting

 PowerPoint Presentation: Goal Setting

 Lesson: Goal Setting

 Assignment: Goal Setting

 Goal Setting Crossword

 Quiz: Goal Setting










Career Preparation

- Each unit constructed in the same way
- Students needed more explicit directions
- Lessons are branched
- SS write assignments online and upload files
- Reinforcing activity
- Unit quiz

Path B, Unit 1: Job Exploration

Job Exploration

Job exploration is the first step to reaching your goal and finding the right job for you! Learn how to research which job is right for you.

-  Student Directions Path B, Unit 1: "Job Exploration"
-  Tutorial on How to Submit your Assignments
-  Study Guide: Job Exploration
-  Lesson: Job Exploration
-  Assignment #1: Job Exploration Chart
-  Assignment #2: Job Exploration Worksheet
-  Occupational Outlook Handbook
-  Job Exploration Crossword
-  Quiz: Unit 1, Job Exploration

Mobile Apps!

- What's Next?!



<http://www5.scoe.net/mfox/whatsnext/schoola.html>

<http://www5.scoe.net/mfox/whatsnext/schoolb.html>

<http://www5.scoe.net/mfox/whatsnext/joba.html>

<http://www5.scoe.net/mfox/whatsnext/jobb.html>

Words4U app store link:

<https://itunes.apple.com/app/words4u/id572012856?mt=8>

Server based: <http://www4.scoe.net/rfox/Words4U/> Just screen shots

Another Mobile App!

- Words4U
- iTunes



[View in iTunes](#)

Free

Category: Education

Released: Oct 29, 2012

Version: 1.0

Size: 11.6 MB

Languages: English, Chinese, Czech, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish, Turkish

Seller: Sacramento County Office of Education

© 2012 SCOE

Rated 4+

Requirements: Compatible with iPhone 3GS, iPhone 4, iPhone 4S, iPhone 5, iPod touch (3rd generation), iPod touch (4th generation), iPod touch (5th generation) and iPad. Requires iOS 4.0 or later.

Customer Ratings

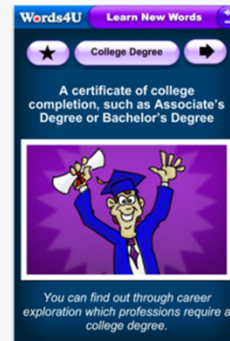
Description

This simple vocabulary building application will help anyone with the words usually used when getting ready for college, or preparing to go to work. The clean interface allows users to learn words and definitions quickly and test their knowledge through two activities to match the word with their definitions. These words align with an online

[Words4U Support](#)

[...More](#)

iPhone Screenshots



Questions/Comments?

- If you are interested in using any of OTAN's shared Moodle courses, contact me
- Next section shows other resources to find free online courses/materials

Other Course Repositories & Learning Resources

- National Repository of Online courses (NROC)
- Hippocampus
- Moodle Commons/Share
- Cool Course Site (Moodle Co
- Open Learning Initiative
- Connexions
- Open High School of Utah
- National Digital Science Library
- OER Commons (and more....)

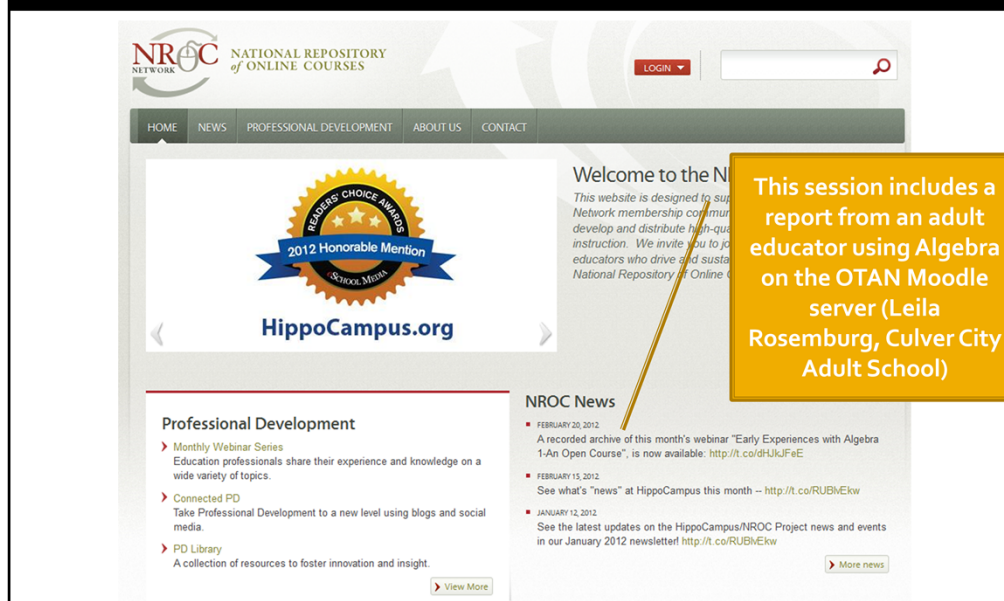
***Caveat
Emptor!***

Be sure to do your
due diligence in
reviewing course
materials!

A small sample of resources where you can find online shared resources.

National Repository of Online Courses

<http://www.montereyinstitute.org/nroc/>



The **National Repository of Online Courses (NROC)** is a growing library of high-quality online course content for students and faculty in higher education, high school and Advanced Placement*. This non-profit project, supported by **The William and Flora Hewlett Foundation**, is an **Open Educational Resource (OER)** and facilitates collaboration among a community of content developers to serve students and teachers worldwide.

Click the image to view the NROC Membership Benefits (pdf). Courses in the NROC library are **contributed by developers from leading academic institutions across the United States. All courses are assessed to ensure they meet high standards of scholarship, instructional value, and presentational impact.** NROC works with scholars and contributes resources to improve course quality and to provide ongoing maintenance. NROC courses are designed to cover the breadth and depth of topics based on generally accepted national curricula and can also be customized within a course management system.

NROC content is distributed **free-of-charge to students and teachers at public websites** including [HippoCampus](http://HippoCampus.org). Institutions wishing to use NROC content are invited to join a fee-based membership organization, the NROC Network. **Organizations serving disadvantaged students can become members of the NROC Network at no cost.**

Hippocampus

<http://www.hippocampus.org>

Hippocampus.org

Real numbers & algebraic expressions

Section 1
Real Numbers

"Universe of Real Numbers."
We'll use it to learn about the different sets of numbers contained in the set of real numbers.

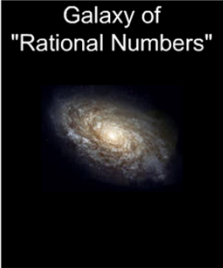
Each level of the universe has one or more parts labeled with the name of a number group.

Each part of the universe has a list of numbers. Choose numbers in each list that match the number group of that part.

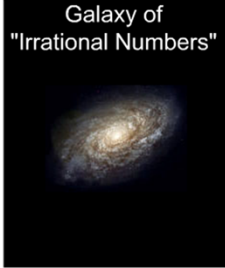
Copyright © 2005
Regents of the University of California

Universe of "Real Numbers"

Galaxy of "Rational Numbers"



Galaxy of "Irrational Numbers"



-26

-7

-2.75

$-\sqrt{2}$

0

$\frac{2}{3}$

1.4

$\sqrt{3}$

8

16

The two galaxies above are labeled "Galaxy of Rational Numbers" and "Galaxy of Irrational Numbers." There are ten numbers below the galaxies that are either rational or irrational numbers. Drag and drop each number anywhere onto the correct galaxy. Once you have placed the numbers on the correct galaxy, you will automatically move to the next screen.

Moodle Commons

http://moodlecommons.org

MoodleCommons.org
 A place to share Moodle courses

You are not logged in. ([Login](#))
 English (en)

Welcome to MoodleCommons.org

Access to information and people creates revolutionary changes in schools. One of these changes is the learning commons, a place where learners share information and resources.

The courses you create and share on MoodleCommons.org add to the learning commons. Be part of the revolution by uploading your courses and improving those posted by others.

[Rules for MoodleCommons.org](#)
[About MoodleCommons.org](#)

Moodle Courses on MoodleCommons.org are licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 3.0 Unported License](#).

More Free Moodle Courses

- [eSocrates.org](#) - Italy

Why is this list so short? [Send me your suggestions](#) for links that should be here.

Course categories

- Arts (Graphics, Photography, etc)**
 - [Scribus DTP - An Introduction](#)
 - [Digital Photography 2010](#)
 - [Power Publishing with Gimp, Inkscape and Scribus](#)
 - [Audio Recording and Podcasting](#)
 - [Digital Photography 2005 - archive only](#)
- Business**

Also a Forum at Moodle.org where others list web sites with courses to share:
<http://moodle.org/mod/forum/view.php?id=7304>

Moodle Cool Course Site

<http://coolcourses.moodle.org/>

The Cool Course Competition Site

You are not logged in.

Navigation

- Home
- Courses

Main menu

- Competition news
- Competition rules
- Competition entries
- Competition Judging
 - Judging and prizes
 - Competition lounge
- Best use of Moodle activities
- Best use of media
- Primary (ages 6-12)
- Secondary (ages 12-18)
- Tertiary (ages 18+)

License

Competition news

Cool Course Competition prizewinners

by Helen Foster - Friday, 26 February 2010, 03:10 PM

Our Cool Course Competition prizewinners are as follows:

Best application of Moodle activities

1st - Stuart Meador with Concepts of ICT
Joint 2nd - Deneka MacDonald with Higher Education Film Studies Module and Joan Queralt with Meteorologia

Best use of media

1st - Edward Pickering-Symes with Climate Change Course
2nd - Maryel Mendiola with Multimedia (tips para tu curso)
3rd - Maryel Mendiola with Using Multimedia (cool tips)

Primary (ages 6-12)

1st - Christine Pannen with Deep Blue - rund um die Ozeane der Welt
2nd - Mary Cooch with Mystery Moodle Fun
3rd - Frédéric Quay with EnigMathTIC : un défi mathématique en ligne

Secondary (ages 12-18)

1st - Martin Kurz with IT-Unterricht
Joint 2nd - Carlos Nunes with Páginas Web Dinâmicas: Programação em PHP e MySQL and František Tumajer with Kvadratické nerovnice

Tertiary (ages 18+)

1st - Janina Dewitz with eLearning and Moodle Essentials +++Lite+++
2nd - Martina Majorová with Úvod do štatistiky
Joint 3rd - Maryel Mendiola with Desarrollo Humano and Gerry Jenkins with PHP/MySQL Course

Congratulations to all our prizewinners and thanks again to everyone who took part in the competition. 😊

Helen Foster (author of Moodle books, a teachers-teacher and a knower-of-all-things-related-to-Moodle) hosts the Cool Course Competition through Moodle.org. Usually held in the summer, it represents courses created all over the world.

Connexions

<http://cnx.org/aboutus/>

CONNEXIONS[®]

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You are here: [Home](#) > [About](#) > [About Us](#)

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Consortium

Conference

Software

Publicity

People

FAQ

Join Us

Contact Us

About Us

Connexions is a dynamic digital educational ecosystem consisting of an educational content repository and a content management system optimized for the delivery of educational content. Connexions is one of the most popular open education sites in the world. Its more than 17,000 learning objects or modules in its [repository](#) and over 1000 collections (textbooks, journal articles, etc.) are used by over 2 million people per month. Its content services the educational needs of learners of all ages, in nearly every discipline, from math and science to history and English to psychology and sociology. Connexions delivers content for free over the Internet for schools, educators, students, and parents to access 24/7/365. Materials are easily [downloadable](#) to almost any mobile device for use anywhere, anytime. Schools can also order low cost hard copy sets of the materials (textbooks).

Modularity

Information is often presented to us linearly, but the way we learn is most often by making connections between new concepts and things we already know. Connexions content is modular for easy remixing. This makes it easier and more cost effective to update and adapt content. [Modular content](#) varies in length at the author's discretion and typically consists of a single idea or topic. These modules or ideas are woven into collections. [Collections](#) can be textbooks, courses, journals, etc.

```
graph TD
    Authors --> AT[Authoring Tools]
    Instructors --> AT
    AT --> NL[New Knowledge Lighthouse]
    NL --> IIC[Ideas Information Concepts]
    NL --> Module
    Module --> Instructors
```

Open HS of Utah

<http://ocw.openhighschool.org/>

The screenshot shows the website for the Open High School of Utah. At the top, there is a dark blue header with the school's name and the URL. Below this is a navigation bar with 'Home' and 'My Courses' links. The main content area features a 'Main Menu' with 'Site news' and a 'Calendar' for April 2011. The calendar shows dates from Sunday to Saturday, with the 19th highlighted. To the right of the calendar, there is a large text block containing the school's mission statement and a description of its educational approach. Below this, there is a section for 'Course categories' which lists 'Language Arts' with sub-items 'English 9 (B)' and 'English Composition'. The date 'Tuesday, April 19, 2011' is displayed in the top right corner of the page.

TRAILBLAZERS OPEN COURSEWARE
OPEN HIGH SCHOOL OF UTAH

Home My Courses Tuesday, April 19, 2011

Main Menu
Site news

Calendar
April 2011

Sun Mon Tue Wed Thu Fri Sat
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

The Open High School of Utah is putting the focus where it should be – on the student. Our mission is to facilitate lifelong success by meeting the needs of the 21st century learner through individualized, student-centered instruction, innovative technology, service learning, and personal responsibility.

The Open High School of Utah is a public charter school designed to meet the needs of the 21st century student. As an online school, we combine state of the art curriculum with strategic one-on-one instruction. Our methods can be described as "one-on-one tutoring for every student in every subject". Instruction is individualized allowing students to work at their pace. Our delivery of education is structured to provide maximum flexibility that is student-centered, responsive to the needs of each learner, eliminating the negative aspects of a one size fits all system. Our technology sets us apart. It is data-driven, providing real time information that instantaneously tracks the student and their performance.

Unique to OHSU is our commitment to share the curriculum we have developed as an open educational resource. All of these elements combined make the Open High School of Utah the future of education; we are the face of innovation.

Course categories

Language Arts
English 9 (B)
English Composition

The Open High School of Utah is a public charter school designed to meet the needs of the 21st century student. As an online school, we combine state of the art curriculum with strategic one-on-one instruction. Our methods can be described as “one-on-one tutoring for every student in every subject”. Instruction is individualized allowing students to work at their pace. Our delivery of education is structured to provide maximum flexibility that is student-centered; responsive to the needs of each learner, eliminating the negative aspects of a one size fits all system. Our technology sets us apart. It is data-driven, providing real time information that instantaneously tracks the student and their performance. **Unique to OHSU is our commitment to share the curriculum we have developed as an open educational resource.** All of these elements combined make the Open High School of Utah the future of education; we are the face of innovation.

National Digital Science Lab

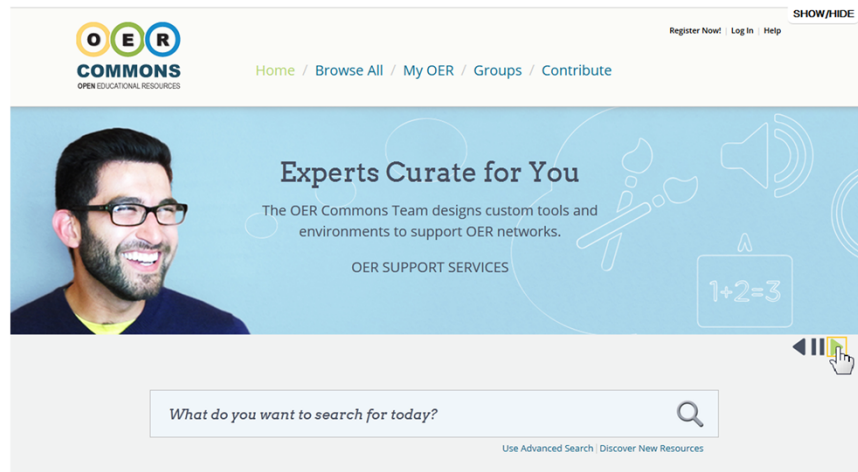
<http://www.ndsl.org>



National Digital Science Library –
A massive resource that is searchable; it is a referral site

OER Commons

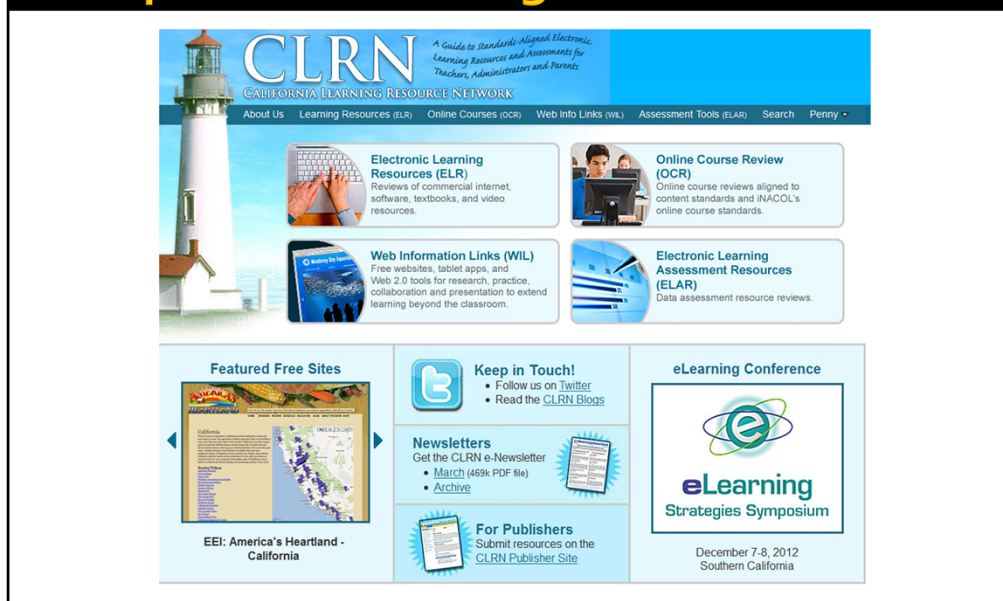
<http://www.oercommons.org>



OER Commons is a curated site – a librarian reviews the sites and categorizes them for you. Also NEW in OER Commons is now they added an “Adult Education” Collection! They will have two additional sub-categories including Adult Basic Education and Adult ESL. There are many features here and it deserves your attention.

CA Learning Resource Network

<http://www.clrn.org>



About the California Learning Resource Network

In December of 1999, the [California Department of Education](#) awarded the SETS (Statewide Education Technology Services) Learning Resource contract to [Stanislaus County Office of Education](#) as LEA (Local Education Agency), with partner county offices of education in [Humboldt](#), [Kings](#), [Orange](#), [Sacramento](#), [San Joaquin](#), [Stanislaus](#), and [San Diego](#). CLRN provides educators with a "one-stop" resource for critical information needed for the selection of supplemental electronic learning resources aligned to the [State Board of Education](#) academic content standards.

California Educators with specific content experience are selected through an application process to act as reviewers once they have completed a rigorous training program. The [review process](#) utilizes the State Board of Education approved [review criteria](#) which covers three areas: Legal Compliance, Standards Alignment, and Minimum Requirements. Resources on CLRN are approved for [Social Content](#) only, resources are NOT state adopted.

CLRN objectives:

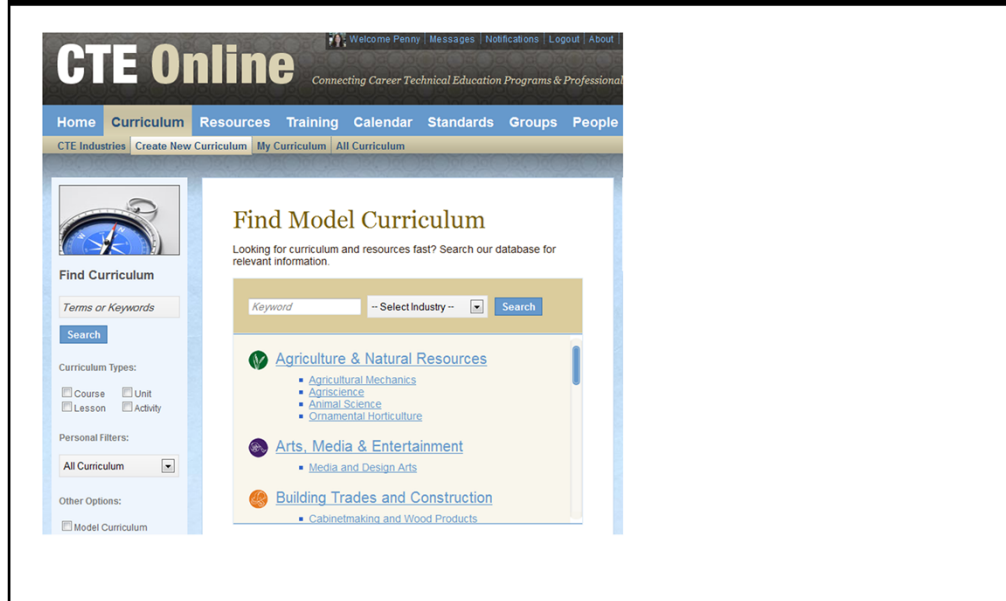
Identify and review supplemental electronic learning resources such as software, video, and Internet resources.

Identify learning units aligned to resources and the state academic content standards.

Maintain an interactive web site to provide information about electronic learning resources through an online searchable database and links to state education technology projects and resources.


CTE Online

[Http://www.cteonline.org](http://www.cteonline.org)



This site provides written curriculum aligned to CA state standards as well as Common Core. They are NOT digital courses – but there is a lot of material here that could be the foundational course pieces to help you build out your own online course. 😊

Open Education Resources

- [Open Educational Resources](#) 
 - A collection of OER sites, e-Textbooks and much more
- <http://www.ocwconsortium.org/>
 - The **OpenCourseWare Consortium** is a collaboration of higher education institutions and associated organizations from around the world creating a broad and deep body of open educational content using a shared model.
- **OER STEM**
 - OVAE contracted to support adult Science, Technology Engineering, Mathematics (STEM) teaching and learning.

https://sites.google.com/site/edtecharena/Home/resources/oer?goback=.gde_3806268_member_47041071

Phil Lacy's collection of resources –

Office of Vocational & Adult Education (OVAE) is seeking a contractor for the new procurement, Open Education Resources (OERs) to Support Adult Science, Technology, Engineering, Mathematics (STEM) Teaching and Learning. This 36 month requirement seeks to advance OVAE's understanding of these emerging technologies and instructional models, and build capacity in the adult education field to utilize OERs for science and math instruction. Through this procurement, the contractor shall involve nationally recognized subject matter experts, establish evaluation criteria that identify promising OERs, recruit and support practitioner user groups, disseminate information and stimulate demand for knowledge about STEM resources, create and deliver professional development materials, and investigate emerging models to make recommendations to the Department.

Contract was awarded to American Institute for Research (AIR)

Licenses, Quality and Ownership Issues

- Again, Caveat emptor!
- Many resources define how they create/accept courses
- Licensed through [Creative Commons](#), usually attribution, share & share alike, and non-commercial use
 - Read these and understand them fully

Another license you may see often is a GNU “The GNU General Public License is a free, copyleft license for software and other kinds of works” So think CC is for “items created by software or other creative works” and GNU as for “software” and “free ware”

Quality

- Many have a defined 'vetting' process
- Stick with the larger organizations
- Have your own set of standards you want to meet
 - Review [iNACOL](#) course standards to get started
- Work with local education offices to see if they can support a centralized LMS site
 - You may be unaware of what is currently available
- Consider partnering with your local community college/university

Questions? Comments?



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